

ROBOX500

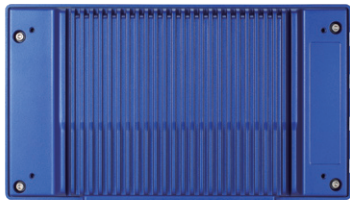
NEW

ROS2 AMR Controller for Navigation and Control Solutions

GMSL ::2



▲ Front view



▲ Rear view

Features

- 12th Gen Intel® Core™ i7 processor (Alder Lake-P), 15W
- 4-channel GMSL camera
- 4 RS-232/422/485 and 2 CAN 2.0A/B
- Wi-Fi/Bluetooth/5G/LTE
- Wide operating temperature from -20°C to +70°C
- Wide voltage input from 9 to 60 VDC
- M12 lockable connectors
- Supports Linux Ubuntu 20.04 LTS
- Supports Axiomtek AMR Builder Package



▲ Bottom side

Specifications

Standard Color	Blue	
Construction	Aluminum extrusion and heavy-duty steel, IP40	
CPU	12th generation Intel® Core™ i7 processor, 15W	
System Memory	2 x DDR4 SO-DIMM slot, up to 64GB	
System I/O Outlet	Front Side 2 x M12 X-code GbE Ethernet 4 x M12 A-code USB 3.2 Gen1 & USB 2.0 1 x DIO with isolation, 16-CH DI, 8-CH DO, 2-CH SSR 4 x 4-Wire RS-232/RS-422/RS-485 2 x CAN 2.0 A/B with isolation 4 x GMSL camera interface (FAKRA universal type) 4 x Antenna opening	Maintenance Side 1 x HDMI 1.4b 1 x Mic-in 1 x Line-out 1 x RJ-45 GbE Ethernet 1 x USB 2.0 (A-type) 1 x USB 3.1 Gen1 (A-type)
Storage	1 x M.2 Key M 2280 for NVMe	
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi/Bluetooth module 1 x M.2 Key B 3052 for 5G module 1 x M.2 Key M 2242 slot for AI module 1 x SIM slot	
System Indicator	1 x Green LED for system power-on 1 x Orange LED for M.2 storage 2 x Green/orange LED for GbE Ethernet 2 x Green LED for user define	
Power Supply	9 to 60VDC, typical 24V or 48V battery	
Operating Temperature	-20°C to +70°C (-4°F to +158°F)	
Humidity	10% - 95%, non-condensing	
Vibration Endurance	3.5 Grms (5 to 500Hz, X, Y, Z directions)	
Dimensions	289 mm (11.38") (W) x 106.5 mm (4.19") (D) x 161.7 mm (6.37") (H)	
Weight (net/gross)	3.87 kg (8.53lb)	
Certifications	CE, FCC Class A	
OS Support	Linux Ubuntu 20.04 LTS	

Ordering Information

Standard

ROBOX500	ROS2 AMR controller with 12th Gen Intel® Core™ i7 processor, LAN, USB 3.2, RS-232/422/485, CAN, DIO, GMSL camera interfaces, and Wi-Fi/Bluetooth/5G/LTE
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Software Support

Linux Ubuntu 20.04 LTS
Axiomtek AMR Builder Package
Intel® OpenVINO™
ROS/ROS2

Optional Accessory

Wall mount kit
DDR4 SO-DIMM module
M.2 NVMe/SATA SSD module
Wi-Fi/Bluetooth module
5G module
LTE module

* Specifications and certifications may vary based on different requirements.

Dimensions

